MEDICAL APPLIANCE DIVISION

COMPANY WITH CERTIFIED QUALITY SYSTEM
UNI EN ISO 9002 & EN 46002

Cod. 341 **GB**

Technician's Manual

STEAM STERILIZERS

Models

STERILIX VACUUM PLUS
STERILIX STAR
STERILIX STAR FAST

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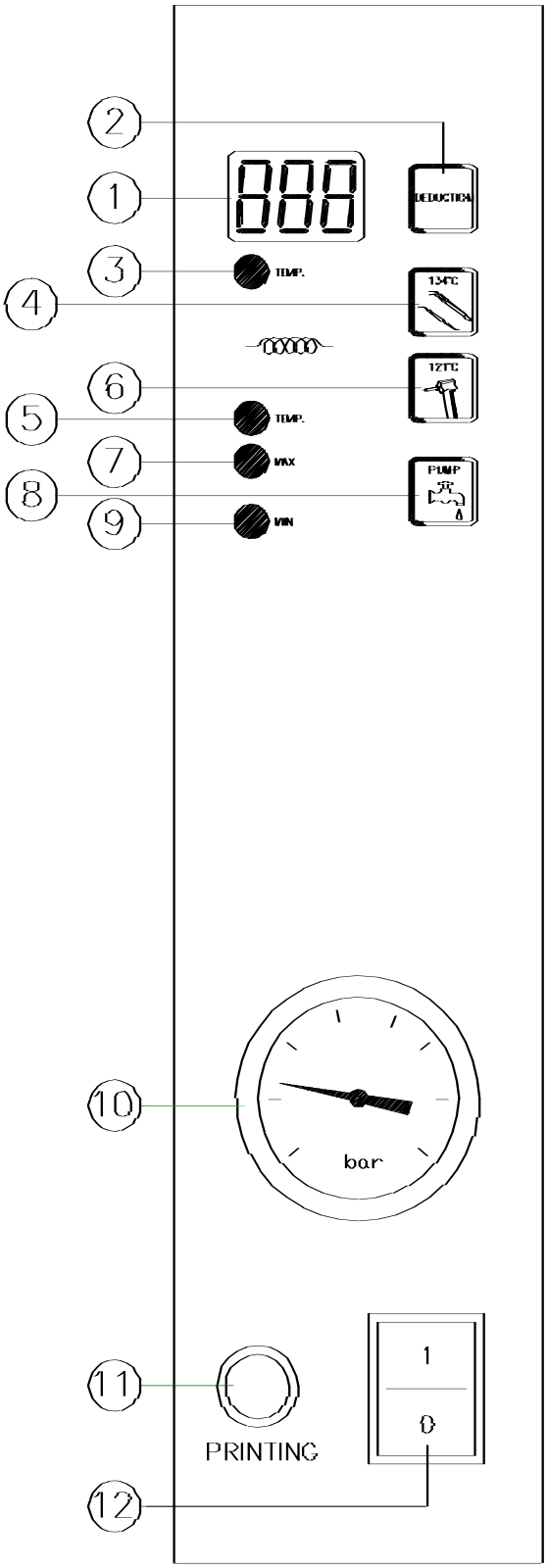
1. *STERILIX VACUUM PLUS / STERILIX STAR / STAR FAST CONTROL PANEL*



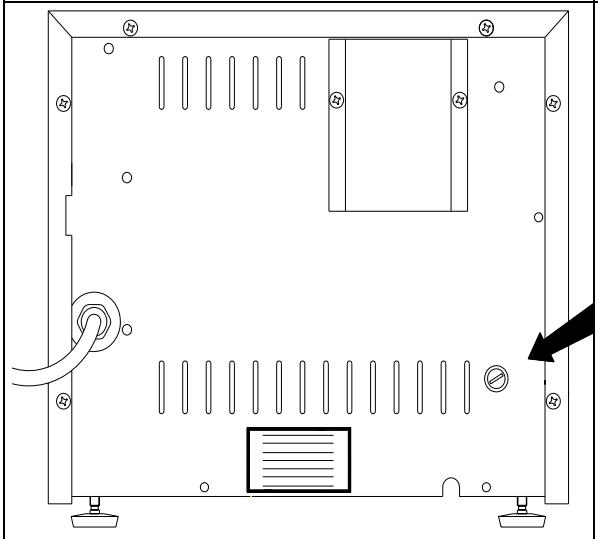
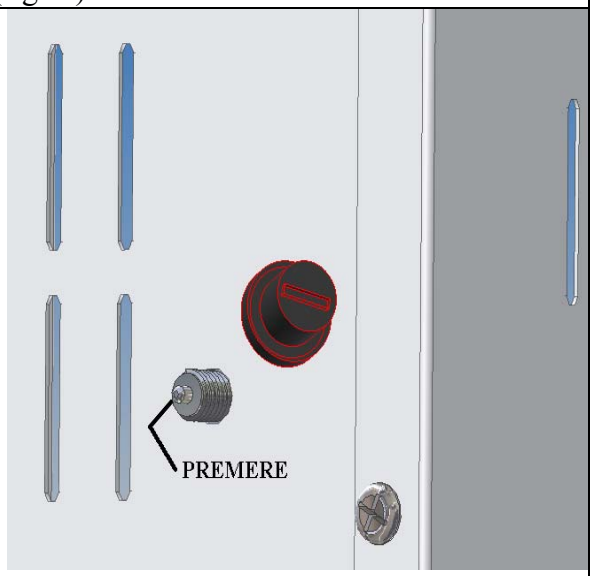
1) INFO DISPLAY for set-ups, temperature values and cycle time in minutes.
2) Button to deduct minutes with the door open, for temperature and pressure display with the door open and temperature and pressure display with the door shut. Supplementary drying phase selection (DRY). Fractioned vacuum selection (STERILIX STAR and STAR FAST only).
3) Indicator light that flashes when the selected temperature has been reached in the chamber. The indicator light remains permanently on when the temperature drops or during the drying phase (DRY).
4) Temperature selection button (PR1).
5) Indicator light that flashes when the selected temperature has been reached in the chamber. The indicator light remains permanently on when the temperature drops or during the drying phase (DRY).
6) Temperature selection button (PR2).
7) Telltale indicating the maximum water level in the reservoir. OK for next cycle not fractioned.
8) Button to top up the water in the tank (see instruction manual).
9) Telltale indicating the minimum water level in the reservoir. Water insufficient for next cycle.
10) Chamber internal pressure gauge.
11) Printer connection.
12) Main ON/OFF switch.

2. *KEY TO DISPLAYED MESSAGES*

01 - tPt	Indicates a block status.
02 - rEt	Indicates that there has been a power failure during the sterilizing phase.
03 - dor	The user is asked to open the door
04 - SLP	Displayed after 1 hour, when the door is open and the machine is not being used: turns off the pre-heating element.
05 - Ptl	Indicates that the temperature is less than 110°C during the sterilizing phase, with a pressure of more than 0.8 bar in the chamber: air in the chamber.
06 - btP	Displayed if 35 min. have elapsed and the temperature has not reached at least 115°C.
07 - PrS	Displayed during the sterilizing process: Pressure less than 0.8 bar with a temperature of more than 120°C
08 - otr	Temperature in the boiler more than 142°C.
09 - Lot	Temperature in the boiler less than -5°C or probe broken.
10 - nPt	Temperature less than 50°C once 20 minutes have elapsed from the time the machine was powered.
11 - Hit	Boiler temperature over 160° or probe wire broken, or faulty probe connection.
12 - dPr	The machine has not carried out the vacuum phase.
13 - Pr0	This message is displayed at the beginning of the cycle when no program has been selected (select the program **without opening the door**).
14 - Pr1	Indicates that PROGRAM 1 has been selected. (134°)
15 - Pr2	Indicates that PROGRAM 2 has been selected. (121°)
16 - A-	Displayed during the DRYING PHASE: **A** = drying.
17 - Str	STERILIZED: indicates THAT THE STERILIZING OPERATIONS HAVE TERMINATED AND THAT THE CYCLE CONFORMS. BEGINNING OF THE UPKEEP CYCLE.
18 - 888	Temperature control test phase message.
19 - StP	Displayed during the PRINT phase (even when the printer is not connected).
20 - H2o	No water in fill tank (see filling procedure).
21 - FuL	Water level in tank sufficient for next cycle.
22 - PrE	Message lasting a few seconds. Precedes display of chamber temperature with door open alone.
23 - tEP	(For technicians only): Displays the temperature reached during the sterilizing phase.
24 - End	END OF STERILIZING CYCLE.
25 - PuP	(For technicians only): Water fill pump only activated in test function. (7)
26 - rES	(For technicians only): Heating element on to test real power draw of the heating element. (13)
27 - Elb	(For technicians only): N.O. solenoid. (14)
28 - Elc	(For technicians only): Chamber water inlet solenoid valve. (7+16)

29 - ElS	(For technicians only): Draining solenoid valve shut. (15)
30 - PoF	Machine status message. Pressure less than 0.8 bar. (1)
31 - Pon	Machine status message. Pressure higher than 0.8 bar. (1)
32 - S.L	Machine status message. Sufficient water in tank.
33 - APE	Machine status message. Door open.
34 - noL	Machine status message. Water below minimum level.
35 - CH.	Door shut.
36 - SCr	For technicians only.
37 - LEt	For technicians only.
38 - SI	Makes sure that the microprocessor is not faulty.
39 - Err	Microprocessor error
40 - - - -	On (electronic board powered).
41 -ACU	Maximum vacuum test.
42 - drY	Supplementary drying program to select after the sterilizing cycle has terminated.
43 - oCH	Vacuum OK message. There are no leaks in the hydraulic circuit of the machine.
44 - LLn	Vacuum faulty message. There are leaks in the hydraulic circuit of the machine.
45 - TEST VUOTO OK	Vacuum test message.
46 - USd	Message indicating dirty water in machine.
47 - FrA	Fractionated vacuum with 3 peaks before sterilizing
48 - ElP	(For technicians only): Vacuum pump N. C. solenoid

3. *TROUBLESHOOTING: SOLUTIONS AND REMEDIES*

01- tPt	Repeat the sterilizing process or contact the after-sales service center.
02- rEt	Wait until the power supply returns. Check the socket and replace it if necessary. Eliminate any reductions / multiple sockets to which the machine may have been connected. Keep electronic machines well away from the appliance as they may create disturbance (e.g. ultrasound equipment, microwaves, cellular telephones or other equipment that emit radio frequencies). Do not touch the machine for 3 minutes wih the switch on. Once the 3 minutes have elapsed, the machine will make a double acoustic signal. Leave the main switch on. Make sure that the pressure gauge needle is on the "0" mark (zero). Open the door and keep the "DEDUCTION" key depressed for at least 5 seconds, then release it. The machine will reset automatically now to begin a new sterilizing cycle.
03- dor	Wait until the message stops flashing and then open the door.
04- SLP	Press any key to re-activate the functions if the machine must be used again, otherwise switch off the machine.
05- PtL	Repeat the sterilizing process if necessary. Contact the after-sales service center if the message appears again. If the machine remains completely cold despite the fact that the green main switch is on, this could mean that the manually reset safety thermostat at the rear of the machine has tripped (fig. A). Unscrew the cap and press the button on the thermostat. Make sure that it trips and resets (fig. B).
	 Fig.A
	 Fig.B
06- btP	Open the machine and repeat the sterilizing process. Contact the after-sales service center if the message appears again.
07- PrS	- there may be a short-circuit in the N.O. solenoid valve coil: replace the coil. - jamming or foreign bodies under the solenoid valve seals. Clean or replace the part. NOTE: this operation must only be carried out by After-sales Service staff. - water fails to enter the chamber even though the level gauge gives the green signal. - the internal temperature governor type PT 100 is badly calibrated. Regulate it by means of the internal TRIMMER. Check and calibrate the probe: NOTE: this operation must only be carried out by After-sales Service staff.

08- otr	Check and calibrate temperature probe type PT 100: NOTE: this operation must only be carried out by After-sales Service staff.
09- Lot	Autoclave on in a cold room: heat the room or check to make sure that the probe operates correctly.
10- ntP	- The wire of the heating element has probably detached. - Burnt-out heating element. - The connection does not conform to the heating element. - Faulty TRIAC: check the connections with a multimeter and replace the part if necessary. Use a genuine spare part and take great care to make the connections in the correct way. NOTE: this operation must only be carried out by After-sales Service staff.
11- HIt	Temperature too high: - Check and calibrate temperature probe type PT 100: NOTE: this operation must only be carried out by After-sales Service staff. - Faulty TRIAC: check the connections with a multimeter and replace the part if necessary. Use a genuine spare part and take great care to make the connections in the correct way. A wire of temperature probe type PT 100 has broken: check the connection terminal and replace the probe with a genuine spare if necessary. NOTE: both these operations must only be carried out by After-sales Service staff.
12- dPr	Too much moisture in the chamber before the sterilizing cycle starts: after having opened the door, deactivate the alarm by pressing the selected program for 3 sec., then repeat the cycle.
44- LLn	Contact the After-sales Service Center if the fault occurs again. Check all the vacuum pump pipes. Replace them with genuine spares if they are damaged. Check all the solenoid valves to make sure that there are no leaks and clean and/or replace the cores if necessary. NOTE: this operation must only be carried out by the After-sales Service staff. Check whether the pressure gauge pointer drops below –0.45 Bar because this means that there is certainly a vacuum in the chamber and that the pressure switch setting must therefore be checked.
19- StP	Connect the printer used to check and file the data.
20- H2o	Fill the tank with distilled or demineralized water using the supplied accessories.
39- Err	(For technicians only): Repeat the microprocessor re-generating process.
42- drY	Supplementary drying cycle repeatable several times. To use when normal drying has not been sufficient. Press DEDUCT with the door open to select the supplementary drying cycle. The cycle lasts 9 minutes.
46- USd	Connect the supplied tube to the red cock and turn it on. This drains the used water from the tank. The autoclave will accept no cycle when this message is displayed. Remember to turn off the cock after the tank has drained.

4. OPERATION OF THE 121° - 134° CYCLES

THE INDICATED POSITIONS ARE ILLUSTRATED IN THE ENCLOSED HYDRAULIC LAYOUT AND WIRING DIAGRAM

1 Once the program has been selected, the machine will start by means of door micro **pos. 4**. The temperature on the display must be less than 90°.
The vacuum pump **pos. 12** comes on and the N.C. solenoid valve **pos. 18** is activated for about 3 minutes until it is deactivated by the pressure switch **pos. 3**. Meanwhile, N.O. solenoid **pos. 14** closes.

2 If a vacuum error (**dPr**) is not signalled, the N.C. solenoid valve **pos. 16** opens and water is injected into the chamber **pos. 4** for about 15 seconds by means of the vibration pump **pos. 7**. The N.O. solenoid valve **pos. 14** remains closed during this operation.

3 By heating, the heating element **pos. 13** transforms the water in the chamber into vapour and pressurizes it. When there is air in the chamber, the pressure gauge pointer may drop to zero after which the pressure reading will increase until the selected temperature has been reached. To obtain saturated vapour, the N.C. solenoid valve **pos. 15** vents off the air intermittently.

4 The pressure switch **pos. 1** must trip at a temperature between 111°C and 119°C. Failing this, one of the following errors: **PrS/PtL** will appear on the display.

5 The pressure should be 1.1 bar once a temperature of 121°C has been reached.
The pressure should be 2.1 bar once a temperature of 134°C has been reached.
The pressure will be 0.2-0.3 bar lower when the chamber is empty (with no tray holders).

6 Press the **PUMP** key when the machine is on and the door shut and the display will visualize two data items: **Pon**, the pressure is higher than 0.8 bar. **PoF**, the pressure is less than 0.8 bar.
This control is also enabled when the machine is preparing for the sterilizing phase.
Keep the **PUMP** key pressed for more than 5 seconds to print out the temperature in the chamber in real time.

7 If the temperature is 1.5°C higher than the selected value, the N.C. solenoid valve **pos. 15** will relieve vapour in order to bring the temperature and pressure down to lower values.

8 Once the sterilizing time has terminated, the condensation discharge phase starts by means of the N.O. solenoid valve **pos. 14** which, with the aid of the pressure in the chamber, sucks up all the water from the bottom in intermittent mode for about one minute. The condensation extracted from the chamber passes through the cooling coil **pos. 10** and reaches the used water reservoir **pos. 9**.

9 Once the draining phase has terminated, the N.O. solenoid valve **pos. 14** closes for about two minutes to allow a vacuum to form in the chamber by means of the pump **pos. 12**.
Once the two minutes have elapsed, the N.C. solenoid valve **pos. 17** trips intermittently and, thanks to connection with the bacteriological filter **pos. 13**, allows air to pass and the chamber interior to dry. During this phase (dry cycle), the message on the display will be **A-** with the number of cycle minutes still remaining alongside.

10 If the pressure exceeds 2.2 bar during the sterilizing phase, the pressure switch **pos. 2** allows the N.C. solenoid valve **pos. 15** to open and thus relieve the excess pressure.

11 If the **H2o** message appears on the display and the red minimum indicator light is on, the fill pump **pos. 7** should start when the **PUMP** key is pressed with the door open. If this fails to occur, the door micro **pos. 4** is probably signalling door closed even if the door is open.

12 After sterilizing, the upkeep cycle starts with the **Str** signal, so long as the door is not opened. The vacuum pump **pos. 12**, the N.C. solenoid valve **pos. 18**, the N.O. solenoid valve **pos. 14** and the N.C. solenoid valve **pos. 17** start operating in order to bring the temperature in the chamber to between 80° and 120°.

5. TESTS

TO CONDUCT WITH THE DOOR OPEN.

THE INDICATED LEDS ARE ILLUSTRATED IN THE ENCLOSED POWER BOARD LAYOUT

1 Leave the switch in the **OFF** position.

2 Turn on the switch along with the **DEDUCTION** button and only release it when **888** appears.

3 Either the program version will appear (only for models manufactured in the year 2000) or the temperature in the chamber at that precise moment (e.g. 59-60).
Press intermittently after having read the message.

4 **rES** - The heating element is powered.
If **led N° 10** on the power board comes on, this means that the signal is being received.
Make sure that the heating element is actually heating by placing your hand inside the reservoir or an amperometric instrument.

5 **ELI** - The solenoid valve of the bacteriological filter is on. Listen for the "tick" noise indicating that the solenoid valve has activated and make sure that **led N° 7** is on.

6 **ELC** - The pump that draws the water from the fill tank is on and delivers water to the boiler.
Led N° 3 will come on and the pump can be heard to operate.

7 **ELb** - The N.O. solenoid valve near the condenser is on. To check that the solenoid valve is energized, close and open the door and listen for the "tick" noise. Make sure that **led N° 9** is always on.

8 **ELP** – Vacuum pump solenoid valve beginning from serial number 00131004
The 3-way solenoid valve and the vacuum pump will be independent and **led N° 6** will come on.

9 **ELS** - The air exhaust valve is on and **Led N° 4** remains on.

10 **PUP** - The pump that delivers water to the chamber is on and **led N° 1** remains on.

11 **PoF** - Indicates that there is no pressure and that the wires of **pressure switch N° 1** are not in the exact "normally open" position.

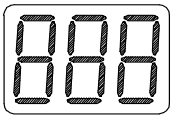
12 **noL** - Indicates that there is no water in the fill tank.
If there was water, the signal would be **S.L** No led.

13 **APE** - Signals that the door is open and that the door micro operates correctly. If the door is closed when this signal is displayed, the message **Ch** must appear. No led on.

14 Leave the door closed and press **DEDUCTION**. This activates the vacuum test. The pump starts and leds **N° 9**, **N° 6** and **N° 2** come on. The pressure gauge reading must drop below zero after which the pump must stop. The message **OCh** must appear on the display after about 3 minutes, meaning that there are no leaks from the machine. After this, **led N° 2** will go out and leds **N° 9** and **N° 6** will remain on.

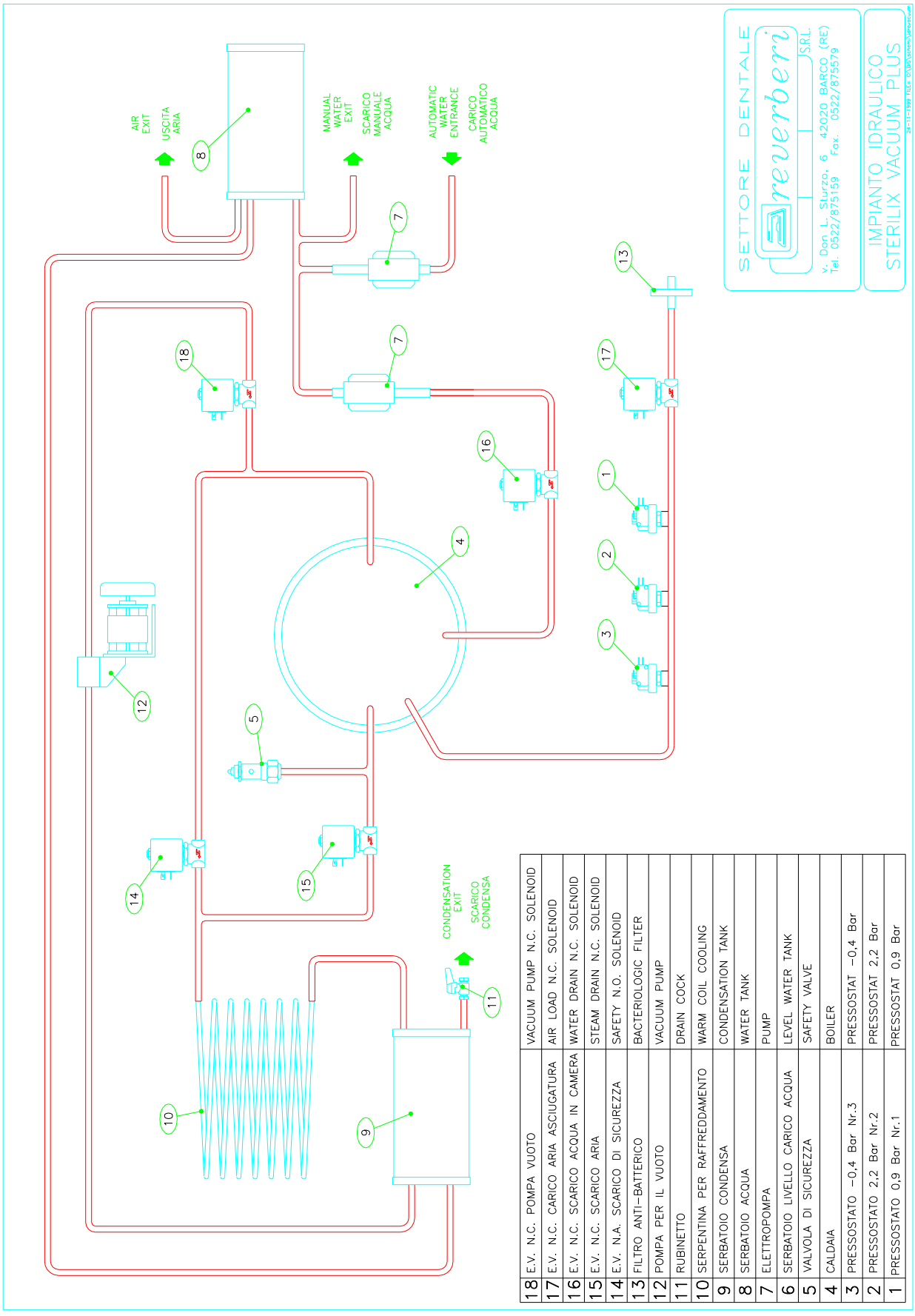
15 When the **DEDUCTION** button is pressed, the vacuum is relieved, **led N° 7** will remain on for 5 seconds and then the flashing message **STP** will appear. All the messages will be printed if the printer is connected at that moment. Press the **DEDUCTION** button with the door open to reset any error message (with the exclusion of **RET**).

NOTE: The boldface captions are the messages that appear on the display.



Led N° 6 is installed on models from serial N° 00131004 onwards.

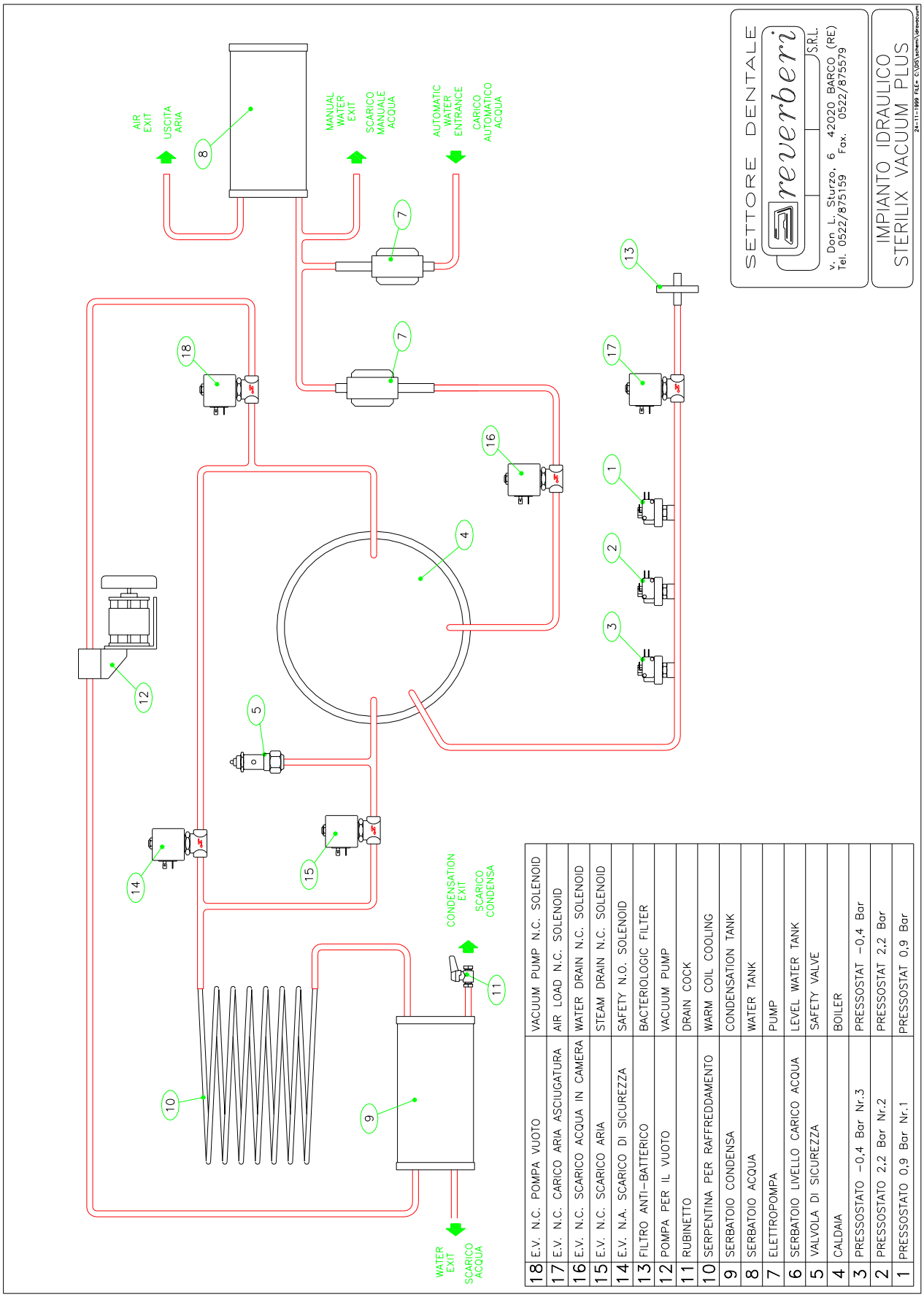
6. HYDRAULIC SYSTEM up to serial N° 99125091 (Vacuum) up to serial N°99131003(Star)



18	E.V. N.C. POMPA VUOTO
17	E.V. N.C. CARICO ARIA ASCIUGATURA
16	E.V. N.C. SCARICO ACQUA IN CAMERA
15	E.V. N.C. SCARICO ARIA
14	E.V. N.A. SCARICO DI SICUREZZA
13	FILTRO ANTI-BATTERICO
12	POMPA PER IL VUOTO
11	RUBINETTO
10	SERPENTINA PER RAFFREDDAMENTO
9	SERBATOIO CONDENSA
8	SERBATOIO ACQUA
7	ELETTROPOMPA
6	SERBATOIO LIVELLO CARICO ACQUA
5	VALVOLA DI SICUREZZA
4	CALDAIA
3	PRESSOSTATO -0,4 Bar Nr.3
2	PRESSOSTATO 2,2 Bar Nr.2
1	PRESSOSTATO 0,9 Bar Nr.1

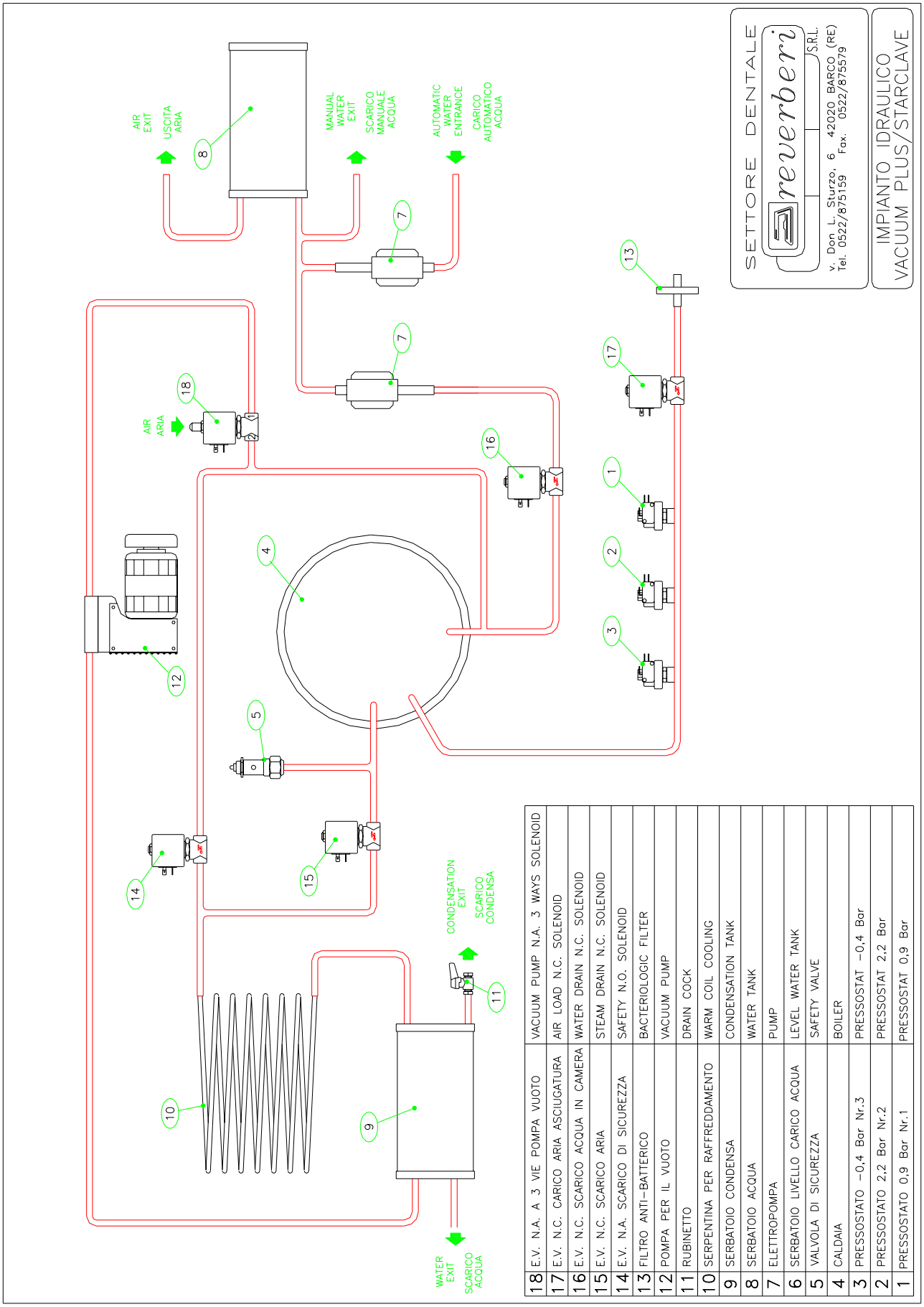
18	VACUUM PUMP N.C. SOLENOID
17	AIR LOAD N.C. SOLENOID
16	WATER DRAIN N.C. SOLENOID
15	STEAM DRAIN N.C. SOLENOID
14	SAFETY N.O. SOLENOID
13	BACTERIOLOGIC FILTER
12	VACUUM PUMP
11	DRAIN COCK
10	WARM COIL COOLING
9	CONDENSATION TANK
8	WATER TANK
7	PUMP
6	LEVEL WATER TANK
5	SAFETY VALVE
4	BOILER
3	PRESSOSTAT -0,4 Bar
2	PRESSOSTAT 2,2 Bar
1	PRESSOSTAT 0,9 Bar

7. HYDRAULIC SYSTEM from serial N° 99125092 (Vacuum) from serial N° 00131001 (Star)

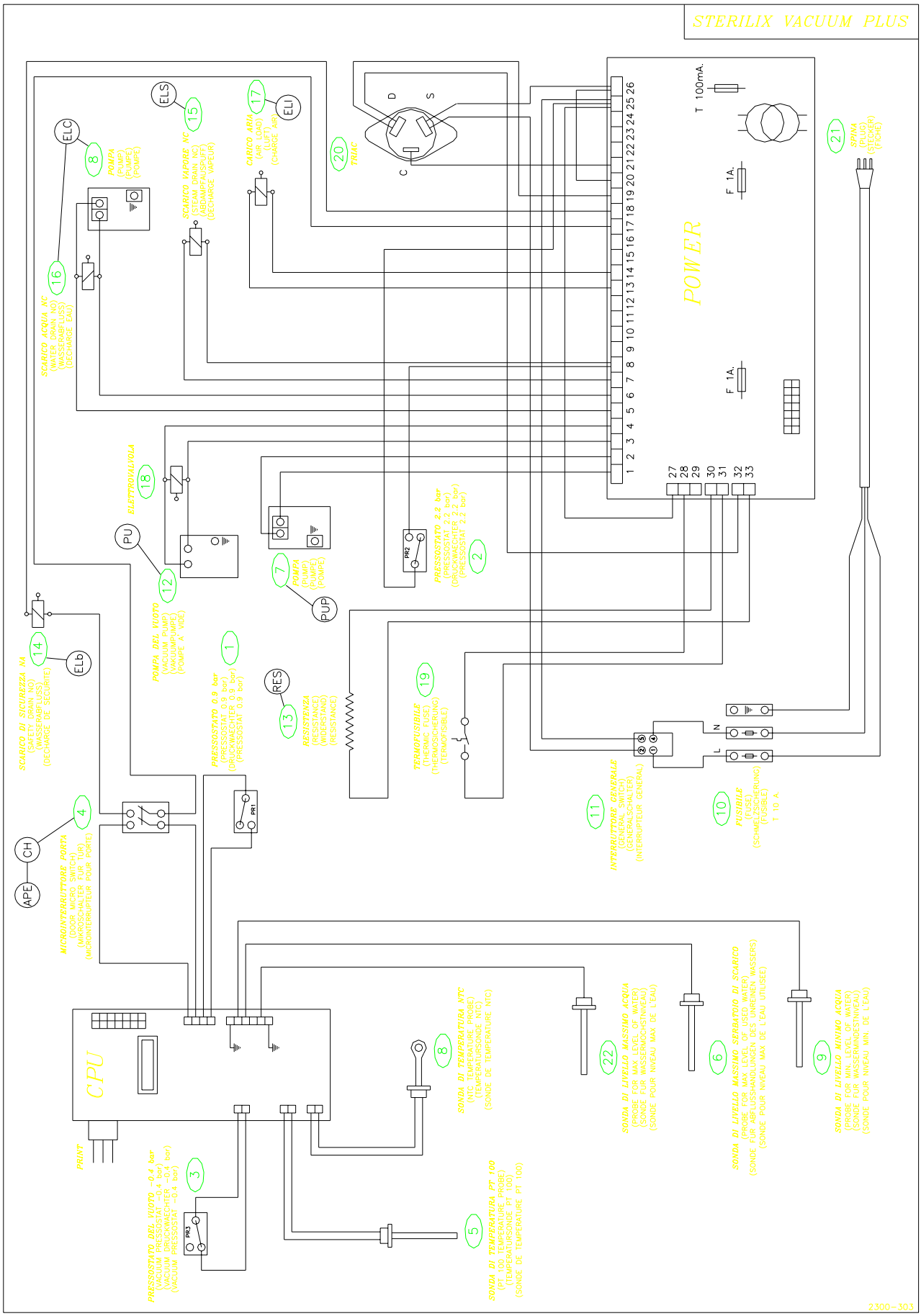


18	E.V. N.C. POMPA VUOTO	VACUUM PUMP N.C. SOLENOID
17	E.V. N.C. CARICO ARIA ASCIUGATURA	AIR LOAD N.C. SOLENOID
16	E.V. N.C. SCARICO ACQUA IN CAMERA	WATER DRAIN N.C. SOLENOID
15	E.V. N.C. SCARICO ARIA	STEAM DRAIN N.C. SOLENOID
14	E.V. N.A. SCARICO DI SICUREZZA	SAFETY N.O. SOLENOID
13	FILTRO ANTI-BATTERICO	BACTERIOLOGIC FILTER
12	POMPA PER IL VUOTO	VACUUM PUMP
11	RUBINETTO	DRAIN COCK
10	SERPENTINA PER RAFFREDDAMENTO	WARM COIL COOLING
9	SERBATOIO CONDENSA	CONDENSATION TANK
8	SERBATOIO ACQUA	WATER TANK
7	ELETTROPOMPA	PUMP
6	SERBATOIO LIVELLO CARICO ACQUA	LEVEL WATER TANK
5	VALVOLA DI SICUREZZA	SAFETY VALVE
4	CALDAIA	BOILER
3	PRESSOSTATO -0,4 Bar Nr.3	PRESSOSTAT -0,4 Bar
2	PRESSOSTATO 2,2 Bar Nr.2	PRESSOSTAT 2,2 Bar
1	PRESSOSTATO 0,9 Bar Nr.1	PRESSOSTAT 0,9 Bar

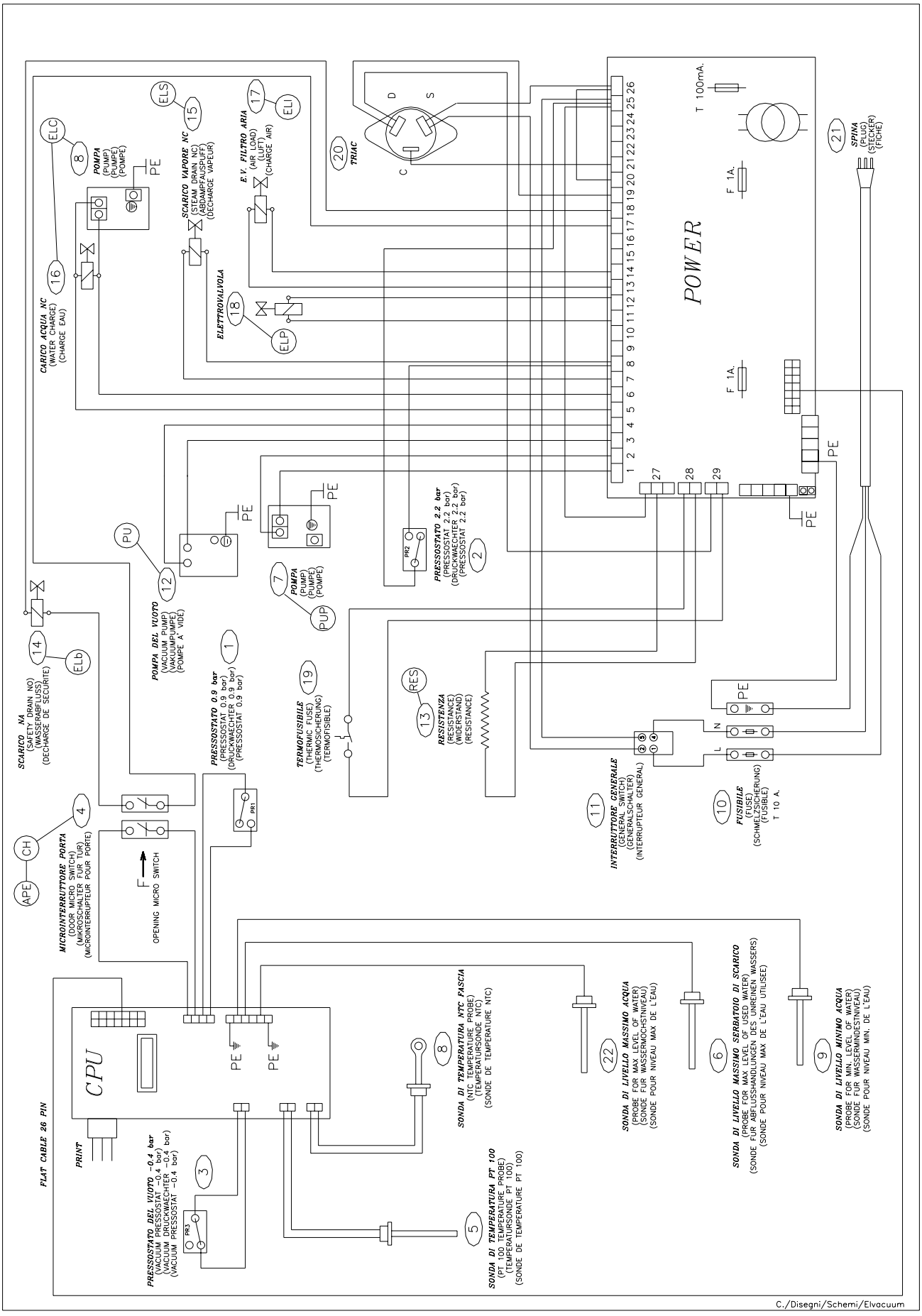
8. HYDRAULIC SYSTEM from serial N° 00131004 (Star)



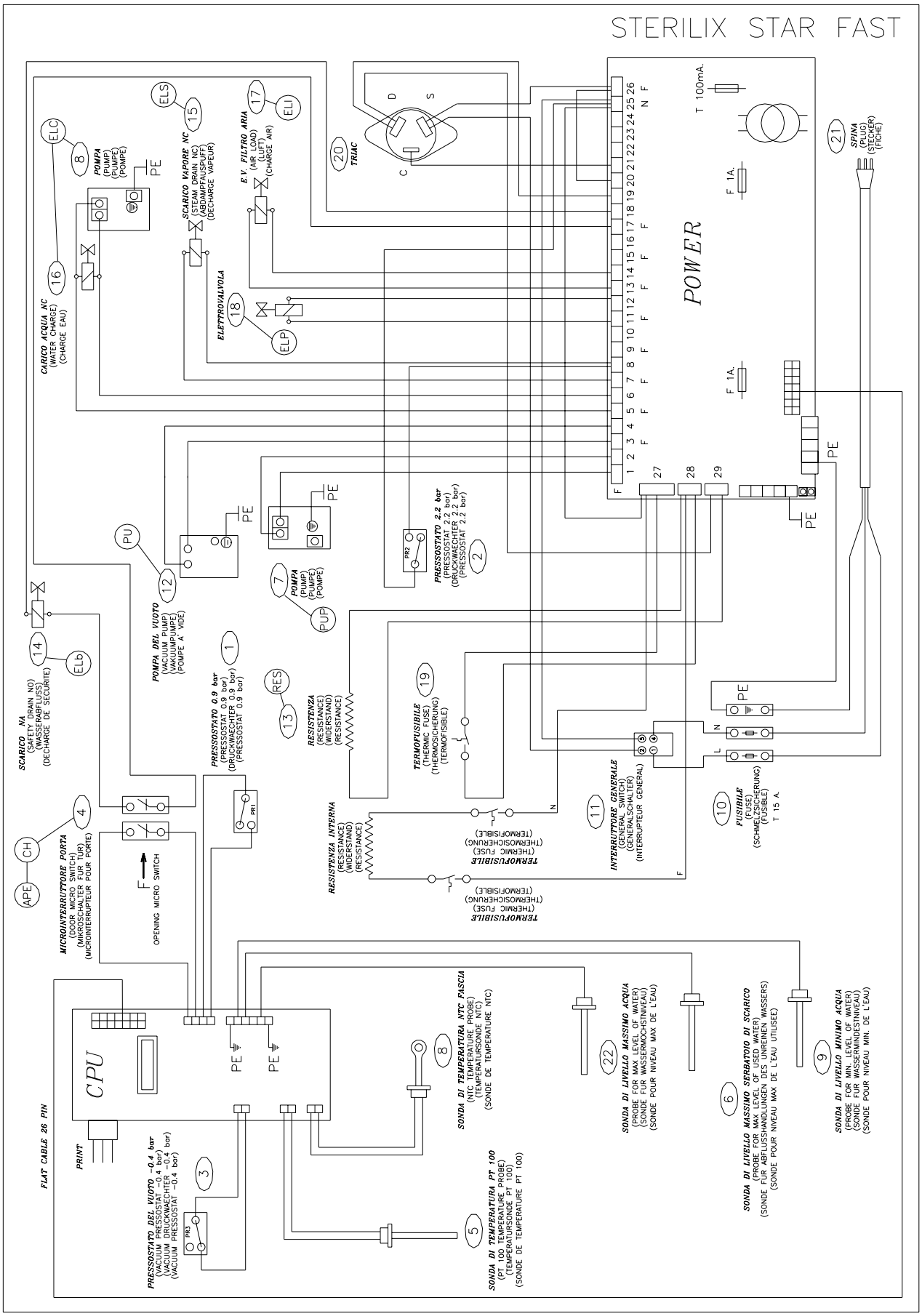
9. ELECTRICAL SYSTEM up to serilal N° 00131003 (Starclave)


STERILIX VACUUM PLUS
POWER
CPU
PRINT
T 100mA.
F 1A.
F 1A.
SPINA (PLUG) (STECKER) (PRISE)
TRIAC
SCARICO ACQUA NC (WATER DRAIN NC) (WASSERABFLUSS) (DECHARGE EAU)
POMPA (PUMP) (POMPE)
SCARICO VAPORE NC (STEAM DRAIN NC) (ABDAMPFAUSPUFF) (DECHARGE VAPEUR)
CARICO ARIA (AIR LOAD) (LUFT) (CHARGE AIR)
ELETTROVALVOLA
POMPA DEL VUOTO (VACUUM PUMP) (VAKUUMPUMPE) (POMPE A VIDE)
PRESSOSTATO 2,2 bar (PRESSOSTAT 2,2 bar) (DRUCKWECHSLER 2,2 bar) (PRESSOSTAT 2,2 bar)
POMPA (PUMP) (POMPE)
SCARICO DI SICUREZZA NA (SAFETY DRAIN NO) (WASSERABFLUSS NO) (DECHARGE DE SCURITE)
PRESSOSTATO 0,9 bar (PRESSOSTAT 0,9 bar) (DRUCKWECHSLER 0,9 bar) (PRESSOSTAT 0,9 bar)
RESISTENZA (RESISTANCE) (WIDERSTAND) (RESISTANCE)
TERMOFUSIBILE (THERMIC FUSE) (THERMOSICHERUNG) (TERMOFUSIBLE)
INTERRUTTORE GENERALE (GENERAL SWITCH) (GENERALSCHALTER) (INTERRUPTEUR GENERAL)
FUSIBILE (FUSE) (SCHMELZSICHERUNG) (FUSIBLE) T 10 A
MICROINTERRUTTORE PORTA (DOOR MICRO SWITCH) (MIKROSCHALTER TÜR) (MICROINTERRUPTEUR POUR PORTE)
PRESSOSTATO DEL VUOTO -0,4 bar (VACUUM PRESSOSTAT -0,4 bar) (VAKUUM DRUCKWACHTER -0,4 bar) (VACUUM PRESSOSTAT -0,4 bar)
SONDA DI TEMPERATURA NTC (NTC TEMPERATURE PROBE) (TEMPERATURSONDE NTC) (SONDE DE TEMPERATURE NTC)
SONDA DI TEMPERATURA PT 100 (PT 100 TEMPERATURE PROBE) (TEMPERATURSONDE PT 100) (SONDE DE TEMPERATURE PT 100)
SONDA DI LIVELLO MASSIMO ACQUA (PROBE FOR MAX LEVEL OF WATER) (SONDE FÜR MAXIMALE WASSERSTAND) (SONDE POUR NIVEAU MAX DE L'EAU)
SONDA DI LIVELLO MASSIMO SERBATOIO DI SCARICO (PROBE FOR MAX LEVEL OF USED WATER) (SONDE FÜR ABFLUSSHANDLUNGEN DES UNREINEN WASSERS) (SONDE POUR NIVEAU MAX DE L'EAU UTILISEE)
SONDA DI LIVELLO MINIMO ACQUA (PROBE FOR MIN LEVEL OF WATER) (SONDE FÜR MINIMALE WASSERSTAND) (SONDE POUR NIVEAU MIN DE L'EAU)
2300-303

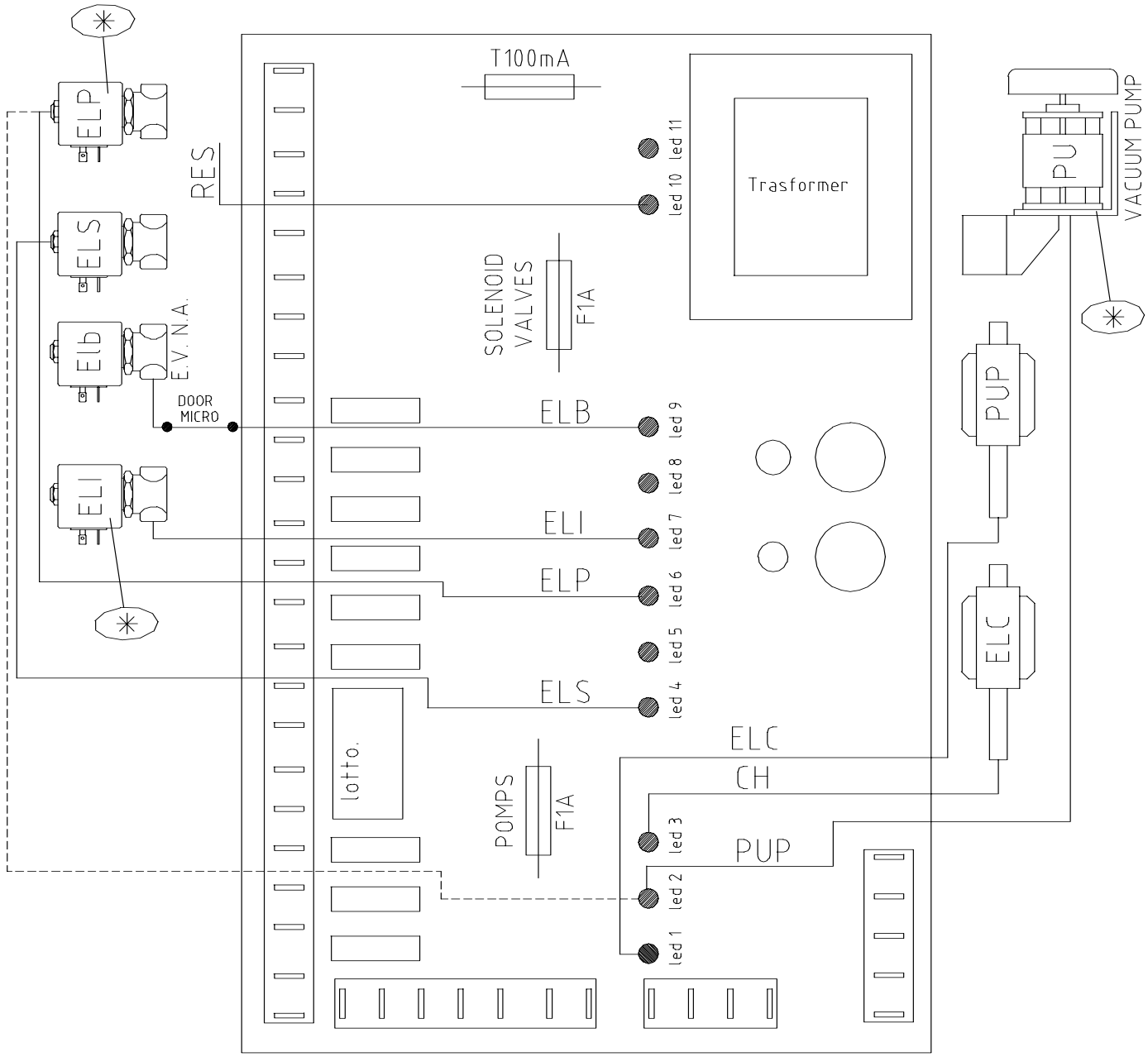
10. ELECTRICAL SYSTEM from serial N° 00131004 (Starclave)



11. ELECTRICAL SYSTEM from STERILIX STAR FAST


STERILIX STAR FAST
POWER
CPU
PRINT
FLAT CABLE 26 PIN
T 100mA.
F 1A.
F 1A.
T 15 A.
SPINA (PLUG) (STECKER) (FICHE)
TRIAC
SCARICO VAPORE NC (STEAM DRAIN VALVE) (ABDAMPFAUSPUFF) (DECHARGE VAPEUR)
E.V. FILTRO ARIA (AIR LOAD) (LUFT) (CHARGE AIR)
ELETTROVALVOLA
CARICO ACQUA NC (WATER CHARGE) (CHARGE EAU)
POMPA (PUMP) (POMPE)
SCARICO NA (SAFETY DRAIN NO) (WASSERABFLUSS) (DECHARGE DE SECURITE)
POMPA DEL VUOTO (VACUUM PUMP) (VACUUMPUMPE) (POMPE A' VIDE)
PRESSOSTATO 0.9 bar (PRESSOSTAT 0.9 bar) (DRUCKWAECHTER 0.9 bar) (PRESSOSTAT 0.9 bar)
PRESSOSTATO 2.2 bar (PRESSOSTAT 2.2 bar) (DRUCKWAECHTER 2.2 bar) (PRESSOSTAT 2.2 bar)
RESISTENZA (RESISTANCE) (WIDERSTAND) (RESISTANCE)
TERMOFUSIBILE (THERMIC FUSE) (THERMOSICHERUNG) (TERMOFISIBILE)
INTERRUTTORE GENERALE (GENERAL SWITCH) (GENERALSCHALTER) (INTERRUPTEUR GENERAL)
FUSIBILE (FUSE) (SCHMELZSICHERUNG) (FUSIBLE)
MICROINTERRUTTORE PORTA (DOOR MICRO SWITCH) (MIKROSCHALTER FUR TUR) (MICROINTERRUPTEUR POUR PORTE)
OPENING MICRO SWITCH
PRESSOSTATO DEL VUOTO -0.4 bar (VACUUM PRESSOSTAT -0.4 bar) (VACUUM DRUCKWAECHTER -0.4 bar) (VACUUM PRESSOSTAT -0.4 bar)
SONDA DI TEMPERATURA PT 100 (PT 100 TEMPERATURE PROBE) (TEMPERATURFUHLER PT100) (SONDE DE TEMPERATURE PT 100)
SONDA DI TEMPERATURA NTC FASCIA (NTC TEMPERATURE PROBE) (TEMPERATURSONDE NTC) (SONDE DE TEMPERATURE NTC)
SONDA DI LIVELLO MASSIMO ACQUA (PROBE FOR MAX LEVEL OF WATER) (SONDE FUR WASSERMOCHSTNIVEAU) (SONDE POUR NIVEAU MAX DE L'EAU)
SONDA DI LIVELLO MASSIMO SCARICO (PROBE FOR MAX LEVEL OF USED WATER) (SONDE FUR ABFLUSSHAUPTNIVEAU DES SCHMUTZWASSERS) (SONDE POUR NIVEAU MAX DE L'EAU UTILISEE)
SONDA DI LIVELLO MINIMO ACQUA (PROBE FOR MIN. LEVEL OF WATER) (SONDE FUR WASSERMINDESTNIVEAU) (SONDE POUR NIVEAU MIN. DE L'EAU)

12. POWER BOARD LAYOUT



* The components marked with an asterisk are not available in models without vacuum pump. Only in models 1999-2000 beginning from Serial N°991250092

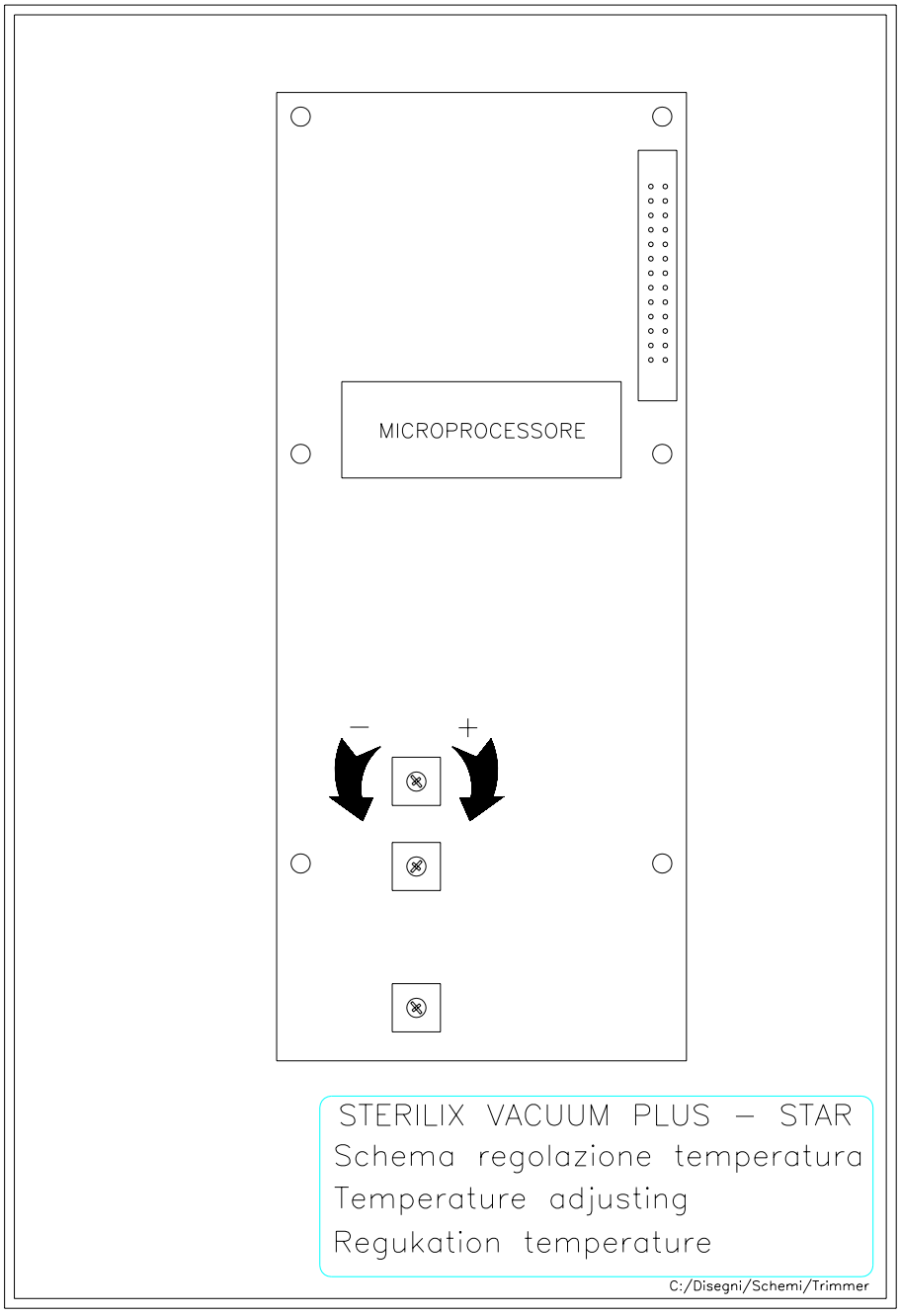
The dotted line_ _ _ _ _ corresponds to the connection for models produced up to the year 1999 inclusive.

13. ADJUSTMENT PRINT-OUT

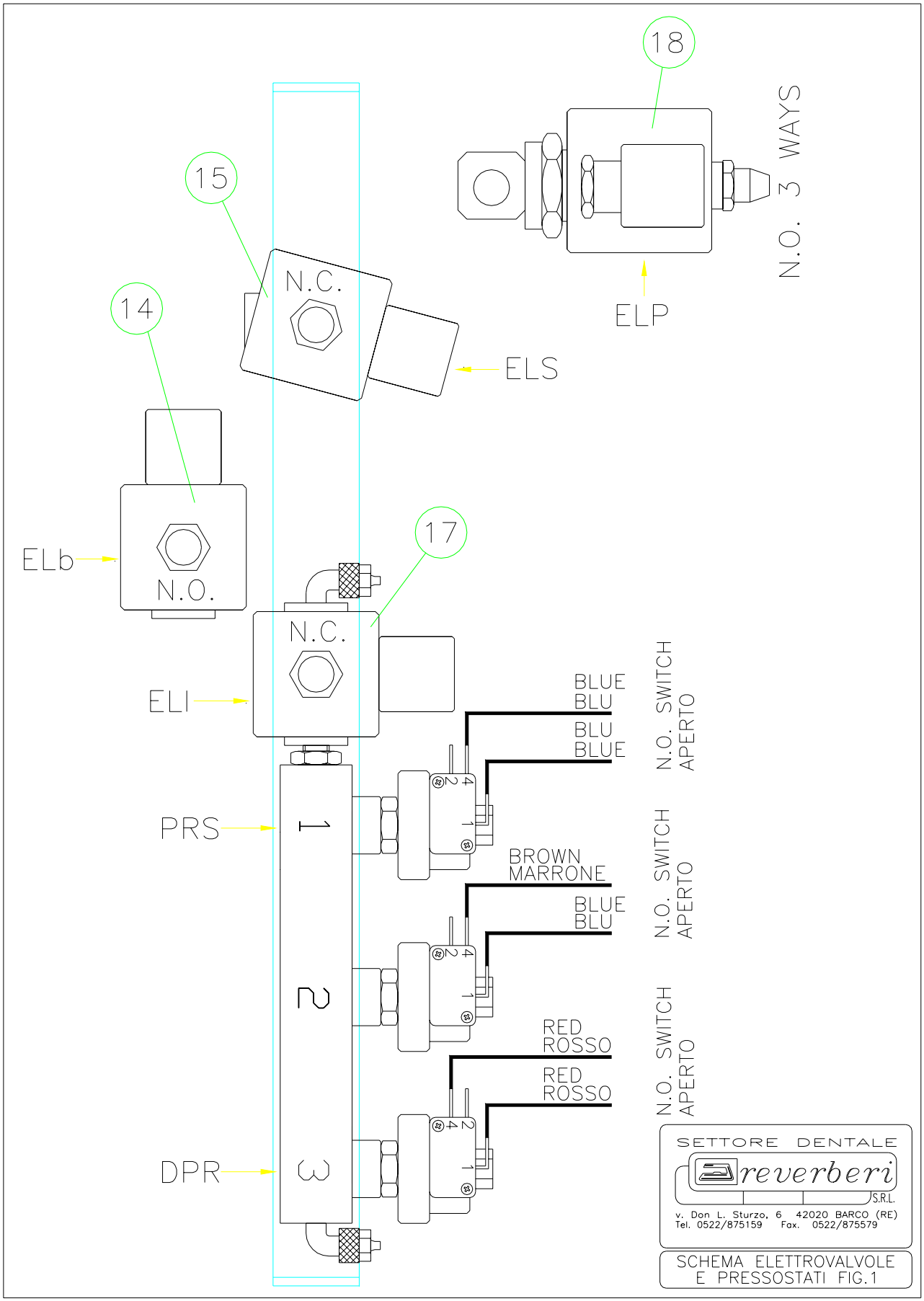
THIS OPERATION CAN BE CARRIED OUT ON AUTOCLAVES WITH SERIAL NUMBERS FROM 99091000 ONWARDS.

1) Power the printer and connect it to the machine.
2) Turn on the **green main switch**. Press the **DEDUCT** and **PUMP** buttons at the same time.
3) The report of the last 50 operations carried out and the signals displayed will be automatically printed.

TEMPERATURE ADJUSTING



14. FIG.1


18
N.O. 3 WAYS
ELP
15
N.C.
ELS
14
ELb
N.O.
17
N.C.
ELI
BLUE
BLU
BLU
BLUE
N.O. SWITCH
APERTO
PRS
1
BROWN
MARRONE
BLUE
BLU
N.O. SWITCH
APERTO
2
RED
ROSSO
RED
ROSSO
N.O. SWITCH
APERTO
DPR
3
SETTORE DENTALE
reverberi
S.R.L.
v. Don L. Sturzo, 6 42020 BARCO (RE)
Tel. 0522/875159 Fax. 0522/875579
SCHEMA ELETTROVALVOLE
E PRESSOSTATI FIG.1